	Idaho Department	of Land		S. W	ell Permit Number	
SUNDRY NOTICES AND REPORTS ON WELLS				11-075-20022		
30141	1	5. If Indian, Allottee or Tribe Name				
Type of Well				7.17	N/A Unit or CA/Agreement, Name and/or No.	
Oil Well	x Gas Well	Other		"	N/A	
Name of Operator				8. W	8. Well Name and No.	
Alta Mesa Services, LP				ML investments #2-10		
Social Control of the			•	9. API Well No.		
5021 Katy Freeway, Suite 400, Houston, TX 77094 281-5 Location of Well (Footage, Sec. T., R., M., or Survey Description)			30-0991	11-075-20022 10. Field and Pool, or Exploratory Area		
		,,		10.1	Willow	
	Range 4W		11.0	11 .County or Parrish, State		
			Payette, Idaho			
	CHECK APPROPRIATE BOX	X(ES) TO INDICATE A	NATURE OF NOTICE,			
TYPE OF SUBMISSION			TYPE OF ACT			
Notice of Intent	Acidize	New Con	struction		Stimulation Treat	
Subsequent Report	Alter Casing		Abandon			
Final Abandonment					Temporarily Abandon	
riilai Abandonment Notice	Casing Repair Change Plans	_x Plug Back		-	Water Disposal	
Notice	Convert to Injection		on (Start/Resume)		Water Shut-Off	
	Convert to injection	Reclamat	uon	_	Well Integrity	
	Deepen d Operation (clearly state all perti	LX Recomple			Other	
Re-test current perfora plug back from current then plan to perforate	tions at 4102-12'. If wel perforations and set cm and test zone from 4080	l cannot be circula t retainer immedia	ited via 4 %" x 5 % ately above perfs (" CSR :	5 %" prod csg via circulation sqz. annulus or behind 5 %" csg, will plan to ox. 4100') and sqz 4102-12' perfs. Will	
ee attached for proce	dures.					
Thereby certify that the fore Name (Printed/Typed) Tampy Short	going Is true and correct	?	Title Date	Reg	ulatory Analyst	
Xun	THIS S	PACE FOR FEDERA	L OR STATE OFFIC	E USE	4/3/	
proved by	The		Date Apri	1	4, 2018	
OPA	Propun M	anager	Office Box	مد		

*Conditions of approval, if any are attached Approval of this notice does not werrant or certify that the applicant holds legal or equitable title to those

rights in the subject lease which would entitle the applicant to conduct operations thereon.

Recompletion Proposal

ML Investments 2-10 Well

Willow Field

Payette Co, ID

AP# 11-075-20022

4/2/18

Detailed Procedure

- 1. MIRU WOR, tank, pump, 5K lines, beam. Haul in 130 bbls produced FW, RU C&J Cementing unit, 250 sks Class G cmt and additives, lines, manifold.
- 2. Take pressures SITP / SICP / SISCP and report same.
- 3. Load rig tank with 150 bbls 8.3 ppg field water and use hopper to mix in 5K lbs of granular KCL to make 8.7 ppg KCL. Roll-tank thru rig pump until FD is 8.7 ppg.
 - a. include biocide in work fluid.
- 4. JSA
- 5. Test lines 500/3500 psig with rig pump.
- 6. Bull head 32 bbls down tbg (2 tbg volumes).
- 7. Set BPV in hanger.
- 8. ND Prod tree.
- 9. NU 7 1/16" 5K frac valve.
- 10. NU 7 1/16" 5K Double BOP & (2) TIW's (Blinds on top / 2 3/8" pipe rams on bottom)
- 11. Pull BPV, install 2-way ck in hanger.
- 12. Test BOPs (hold test 2 minutes)
 - a. Install new ring gasket on THF
 - b. Blinds 500 / 3500 psig
 - c. Pipe rams 500 / 3500 psig
 - d. Test (2) TIW's 500 / 2000 psig.
- 13. Pull 2-way ck from hanger.
- 14. Back out pins on TH and install lift jt.
- 15. Release pkr (1/4 turn to right and confirm string weight (12-14K lbs w/ buoyancy).
- 16. Reverse out 3 BU (49 bbls) at 3-5 BPM w/ 8.7 ppg KCL water.
- 17. POOH w/ 2 3/8" tbg.
- 18. PU 2 3/8" stinger and subs.
- 19. TBIH and sting into retainer at 4147'.
 - a. Reverse out clean on top of retainer 3-4 BPM prior to stinging in.
- 20. JSA w/ cement crew.
- 21. Test lines, manifold 500 / 5000 psig.

- 22. Perform injection test into perfs at 4158-70' down tbg. Record injection pressures and rates. Max Inj pressure 2000 psi. Monitor backside and observe SICP. NOTE: The static FL should be around 1000-1500'.
 - a. 0.5 BPM 5 bbls total
 - b. 1 BPM 5 bbls total
 - c. 1.5 BPM 5 bbls total
 - d. 2 BPM 5 bbls total
- 23. Open backside while injecting and determine if well will circulate behind pipe.
 - a. If the FL is at 1500' +/- it will take approx. 13 bbls to begin circulating.
 - b. Inject at least 30 bbls w/ backside open before abandoning effort to establish circulation.
 - c. If circulation to backside is established, plan to get 2 BU to assist in cleaning out annular space.
 - d. *If well does not circulate, see Supp procedure below to plug back and sqz existing perfs at 4102-12' and test upper most lobe of Sand 2 between 4080-4100'. *
- 24. Assuming well circulates move forward with circulation sqz thru perfs at 4102-12'.
 - a. Close backside in.
 - b. Mix 50 sks (10.5 bbls) Class G cmt w/ 0.5% DCD-33 (FR) \pm 0.5% CFL-300 (LWL) \pm 0.15% CR-270 (Ret) at 15.6 ppg 1.18 CF/sk yield using 5.15 gal FW / sk.
 - i. 6 hr pump time.
 - ii. LWL 50 cc's / 30 mins.
 - iii. Compressive strength
 - 1. 12 hrs 1000 psi CS
 - 2. 24 hrs 1500 psi CS
 - c. Pump 10 bbls cmt slurry w/ backside closed and displace to top of retainer w/ displace w/ 6 bbls 8.8 ppg KCL water leaving TOC at 1560'.
 - d. Pump 6.6 bbls cmt into formation w/ 6.6 bbls 8.8 ppg KCL.
 - e. Open backside and take 2.45 bbls in returns.
 - f. Total displacement = 15.10 bbls 8.8 ppg KCL water.
 - g. Final TOC inside tbg 3902' psih 1983 psi w/ 245' cmt column
 - h. Final TOC inside annulus 3867' psih 1983 psi w/ 245' cmt column
- 25. Sting out of retainer.
- 26. POOH slowly if well is U-tubing, let well stabilize before POOH.
- 27. WOC
- 28. PU 3.62" tapered cmt mill and subs.
- 29. TiH and tag up with cmt and record depth.
- 30. RU power swivel stripper head.
- 31. Drill out cmt to cmt retainer at 4147' reversing.
- 32. Reveres out 2-3 BU at retainer.
- 33. POOH.
- 34. RU WLU.
- 35. MU 3.60" GR/JB on CCL.
- 36. RIH and tag Cmt retainer at 4147'.
- 37. POOH.

- 38. PU 2 3/8" x 4 1/2" VS1X pkr and TCP assy
 - a. VS1X pkr turned down to 3.59" OD
 - b. 3 1/8" x 12' HSE loaded 6/60
 - c. 1.72" XN profile
 - d. Mech firing head
 - e. Flow sub
 - f. Drift all coponents.
- 39. RIH w/ BHA on WL w/ CCL.
- 40. Tie-into Weatherford log gamma/CCL 3/13/14.
- 41. Set pkr at approx. 4085' leaving guns in zone at 4102' 12'.
- 42. RD WLU.
- 43. PU on/off tool skirt and RIH w/ 2 3/8" tbg w/ on/off tool, drifting.
- 44. Tag up w/ on/off tool stinger and space out same.
- 45. Latch up and land tbg in TH bowl.
- 46. Run in pins.
- 47. Test backside to 500 psig for 10 mins.
- 48. ND BOPs / NU tree.
- 49. Set 2-way ck and test tree 500/2500 psig.
- 50. Pull 2-way ck.
- 51. RU swab.
- 52. Swab well down to 2000'.
- 53. Move rig off of well to side of location and MU flow line.
- 54. Drop bar and perforate 4102-12'.
- 55. Clean up well to rig tank and recover all LW (8.1 bbls).
 - a. Swab as necessary.
- 56. Turn well over to production dept.

*Supplemental Procedure - If unable to establish circulation to behind pipe, will sting out of retainer at 4147' and TOOH. Plug back w/ 2nd cmt retainer and set at 4100' +/- and plan to sqz current perforations at 4102-12'. Then will proceed to perf and test zone between 4080' - 4100'.

- 1. Sting out of cmt retainer at 4147' and TOOH.
- PU cmt retainer on WL and RiH, set cmt retainer at 4100'.
- 3. Test csg/retainer to 1000 psig for 10 mins.
- 4. PU stinger and TIH.
- 5. Sting into cmt retainer and perform injection test into perfs at 4102-12'. Max injection 2000 psig.
- 6. Leave 10K lbs on retainer and apply 500 psig to backside.
 - a. 0.5 BPM
 - b. 1 BPM
 - c. 1.5 BPM
 - d. 2 BPM

- 7. Mix 50-100 sks class G cmt depending on injection test (10.5 21 bbis) w/ 0.5% DCD-33 (FR) + 0.5% CFL-300 (LWL) + 0.15% CR-270 (Ret) at 15.6 ppg 1.18 CF/sk yield using 5.15 gai FW / sk.
- 8. Pump slurry and displace 14.8 bbls, leaving 1 bbl cmt inside tbg.
- 9. Sting out and reverse out cmt and excess 3 BU at 3-4 BPM.
- 10. TOOH,
- 11. RU WLU.
- 12. MU 3.60 GR/JB w/ CCL.
- 13. RIH and tag cmt retainer at 4100' and confirm guns and pkr can get down. Tie-into Weatherford Gamma/CCL log 3/13/14.
- 14. POOH.
- 15. PU 2 3/8" x 4 1/2" VS1X pkr and TCP assy
 - a. VS1X pkr turned down to 3.59" OD
 - b. 3 1/8" HSE gun perf interval TBD.
 - c. 1.72" XN profile
 - d. Mech firing head
 - e. Flow sub
 - f. Drift all coponents.
- 16. RIH w/ BHA on WL w/ CCL.
- 17. Tie-into Weatherford log gamma/CCL 3/13/14.
- 18. Set pkr at approx. 4060'. Perfs TBD.
- 19. RD WLU.
- 20. PU on/off tool skirt and RIH w/ 2 3/8" tbg w/ on/off tool, drifting.
- 21. Tag up w/ on/off tool stinger and space out same.
- 22. Latch up and land tbg in TH bowl.
- 23. Run in pins.
- 24. Test backside to 500 psig for 10 mins.
- 25. ND BOPs / NU tree.
- 26. Set 2-way ck and test tree 500/2500 psig.
- 27. Pull 2-way ck.
- 28. RU swab.
- 29. Swab well down to 1500'.
- 30. Move rig off of well to side of location and MU flow line.
- 31. Drop bar and perforate Perfs TBD'.
- 32. Clean up well to rig tank and recover all LW.
 - a. Swab as necessary.
- 33. Turn well over to production dept.

